# 60th Medical Group (AMC), Travis AFB, CA

### INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE (IACUC)

### FINAL REPORT SUMMARY

(Please type all information. Use additional pages if necessary.)

PROTOCOL #: FDG20120036A

**DATE:** 7 MAY 2015

PROTOCOL TITLE: "General surgery training in animal models (pig, Sus scrofa; sheep, Ovis aries; goat, Capra hircus), including advanced combat trauma Interventions, advanced laparoscopic procedures, and cardiovascular procedures."

PRINCIPAL INVESTIGATOR (PI) / TRAINING COORDINATOR (TC): Maj Sean Martin

**DEPARTMENT: Surgery** 

PHONE #: 423-5188

INITIAL APPROVAL DATE: 20 Sep 2012

LAST TRIENNIAL REVISION DATE: 28 Aug 2014

FUNDING SOURCE: Surgeon General's Office

#### RECORD OF ANIMAL USAGE:

Animal Species:	Total # Approved	# Used this FY	Total # Used to Date	
Sus scrofa	75/year	27	146	
Ovis aries	20/year	0	0	

2.	PROTOCOL TYPE / CHARACTERISTICS: (Check all applicable terms in EACH column)							
	_X_ Training: L	ive Animal	_X Medical Readiness	Prolonged Restraint				
	Training: n	on-Live Animal	Health Promotion	Multiple Survival Surgery				
	Research:	Survival (chronic)	Prevention	Behavioral Study				
	Research:	non-Survival (acute	) Utilization Mgt.	Adjuvant Use				
	Other (	)	X_ Other (Treatment )	Biohazard				
3.	PROTOCOL PA	AIN CATEGORY (U	SDA): (Check applicable) C	E				
4.	PROTOCOL STATUS:							
	*Reque	uest Protocol Closure:						
	Inactive, protocol never initiated							
Inactive, protocol initiated but has not/will not be completed								
	_X_ Completed, all approved procedures/animal uses have been completed							
5.	Previous Amendments: List all amendments made to the protocol IF none occurred, state NONE. Do not use N/A.							
		Study Chronologic						
	Amendment Number	Date of Approval	Summary of the Change					
	1	30 July 2013	Personnel Changes					
	0	4.4 Nov. 2042	Dernannal Changes					

3	18 July 2014	Personnel Changes	
4	6 Aug 2014	Personnel Changes	

6. FUNDING STATUS: Funding allocated: \$43,000 Funds remaining: \$

## 7. PROTOCOL PERSONNEL CHANGES:

Have there been any	/ personnel/	staffing chang	ges (PI/CI/AI/T	C/Instructor) sir	nce the last IAC	CUC approval of	f protocol.
or annual review?			·	,			
If yes, complete the	following se	ctions (Additio	ons/Deletions)	For additions	indicate wheth	er or not the IA	CHC has

approved this addition.

ADDITIONS: (Include Name, Protocol function - PI/CI/AI/TC/Instructor, IACUC approval - Yes/No)

Maj Scott Zakaluzny-Al-Instructor, Capt Rachel Russo-Al-Surgeon, Dr. Travis Gerlach-Al-Surgeon

<u>DELETIONS</u>: (Include Name, Protocol function - PI/CI/AI/TC/Instructor, Effective date of deletion)

Capt Paul Vu-Al-Surgeon, Maj Matthew Sena-Al-Surgeon

8. PROBLEMS / ADVERSE EVENTS: Identify any problems or adverse events that have affected study progress. Itemize adverse events that have led to unanticipated animal illness, distress, injury, or death; and indicate whether or not these events were reported to the IACUC.

#### NONE

### 9. REDUCTION, REFINEMENT, OR REPLACEMENT OF ANIMAL USE:

REPLACEMENT (ALTERNATIVES): Since the last IACUC approval, have alternatives to animal use become available that could be substituted in this protocol without adversely affecting study or training objectives?

There is no substitute for live tissue training

**REFINEMENT:** Since the last IACUC approval, have any study refinements been implemented to reduce the degree of pain or distress experienced by study animals, or have animals of lower phylogenetic status or sentience been identified as potential study/training models in this protocol?

#### none

**REDUCTION:** Since the last IACUC approval, have any methods been identified to reduce the number of live animals used in this protocol?

Possibly, based on the numbers of trainees that are projected to be present during the sessions, the number of animals may be reduced for that lab if appropriate

10. <u>PUBLICATIONS / PRESENTATIONS</u>: (List any scientific publications and/or presentations that have resulted from this protocol. Include pending/scheduled publications or presentations).

### Not applicable

11. Were the protocol objectives met, and how will the outcome or training benefit the DoD/USAF?

Yes, this lab is consistently referenced as a highlight of the surgical rotation. This general surgery training protocol continues to provide useful education for staff, residents, interns, and medical students. Each animal is used by multiple trainees under the direction of a staff surgeon, ensuring that maximum benefit is derived. Students improve their anatomy knowledge, tissue and instrument handling, clinical decision making, and technical skills. The labs have been evenly divided between trauma and general surgery/laparoscopic skills as outlined in the protocol/training curriculum. Feedback from the participants has been strongly positive and demand for these classes has been increasing. A total of 320 students received 1180 hours of training this past year.

PROTOCOL OUTCOME SUMMARY: (Please provide, in "ABSTRACT" format, a summary of the protocol 12. objectives, materials and methods, results - include tables/figures, and conclusions/applications.) SEAN P. MARTIN, MD MAJ, USAF, MC GENERAL SURGERY RESIDENCY PROGRAM DIRECTOR 60 MEDICAL GROUP/SGCQQ Attachments: Attachment 1: Defense Technical Information Center (DTIC) Abstract Submission (Mandatory) Attachment 1 Defense Technical Information Center (DTIC) Abstract Submission This abstract requires a brief (no more than 200 words) factual summary of the most significant Information in the following format: Objectives, Methods, Results, and Conclusion. Objectives: Provide live tissue training experience for residents in multiple specialties to cover a wide breadth of general, vascular, and trauma surgical procedures. Methods: The porcine model using general anesthesia during laparoscopic, endoscopic, and open surgical procedures. Results: The residents are evaluated based on their prerequisite objective goals for their ability to perform procedures dependent upon their skill set and level of training. For further details regarding this, please reference the manuscript detailing surgical procedures and expectations for participating residents and staff instructors. Conclusion: This protocol is meeting the core mission of the CIF to support our GME program in General and Vascular Surgery Resdiency **Grant Number:** From:

Company

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